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TITLE: Feed additive for piglets - contains essential oil obt'd. by extn. of bark of Siberian fir tree and has bacteriostatic effect on intestinal bacteria

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PATENT-ASSIGNEE: KRASY SECT SIBE LIVESTOCK RES INST (KYSER), SIBE TIMBER IND RES INST (SITI)

PRIORITY-DATA: 1990SU-4821697 (March 11, 1990)

## PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
SU 1727773-A1	April 23, 1992		004	A23K001/14

1994-2003

## APPLICATION-DATA:

PUB-NO	APPL-DATE	APPL-NO	DESCRIPTOR
SU 1727773A1	March 11, 1990	1990SU-4821697	

INT-CL (IPC): A23K 1/14

ABSTRACTED-PUB-NO: SU 1727773A

## BASIC-ABSTRACT:

The feed additive comprises essential oil obt'd. from bark of Siberian fir. (I) is obt'd. by treatment of siberian fir bark, milled to particle size 3-5 mm, with live stream of temp. 130 deg.C, condensing vapours and sepg. organic phase from water. (I) contains above 66% of monoterpenes (mainly alpha-pinene, camphene, beta-pinene and beta-phellandrene (1(7),2-p-methadiene). Acidic fraction of (I) contains 80% of bornyl acetate while caryophyllene constitutes 50% of sesquiterpene fraction.

Tests show that the proposed additive, fed to piglets starting from 2 months of life for 125 days, increases digestibility of dry substances by 1.14-1.37%, organic substances by 1.12-1.29%, protein by 2.56-3.34%, nitrogen-less extractive substances by 1.12-1.34% and fat by 3.06-3.92%, compared to the results obt'd. for control gp. receiving no additive. Average daily wt. gain is increased by 9.9-14.1%. When the additive is fed to piglets starting from age of 4 months, it increases digestibility of dry substances by 0.05-1.79%, organic substances by 0.92-2.01%, protein by 2.64-3.08% and fat by 3.72-4.0%, compared to control gp., receiving no additive. Average daily wt. gain is increased by 2.4-8.6%. The additive has also bacteriostatic effect on intestinal microflora of piglets.

USE/ADVANTAGE - As a feed additive for piglets. The additive increases digestability of standard feed mixtures and shows bacteriostatic effect on intestinal microflora. Bul.15/23.4.92

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## EQUIVALENT-ABSTRACTS: